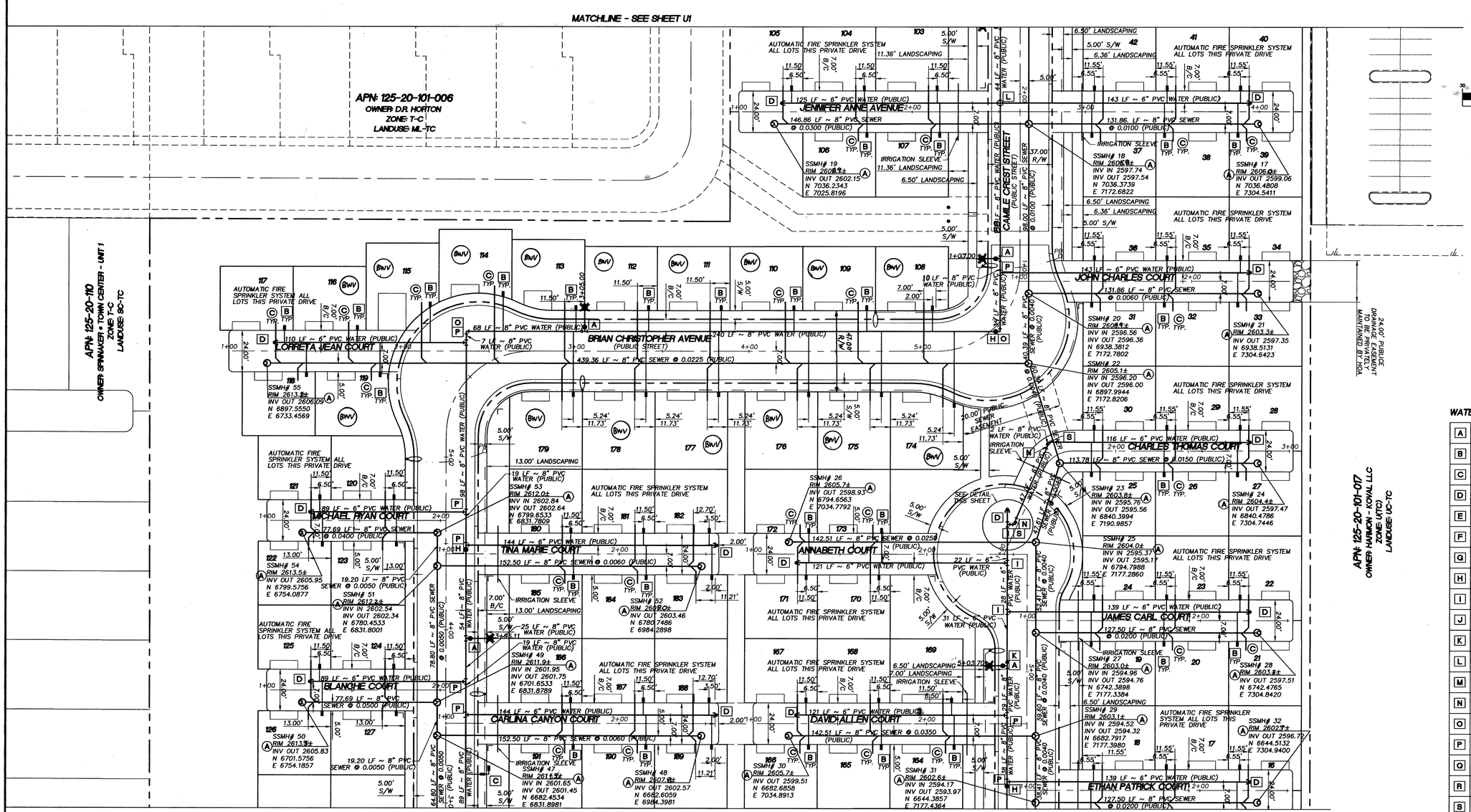
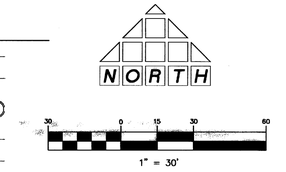
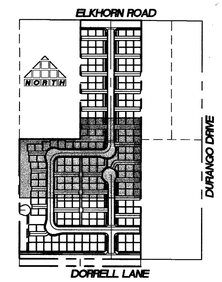






KEYMAP
NOT TO SCALE

WATER NOTES

A	INSTALL FIRE HYDRANT ASSEMBLY PER UDACS STD. PLATE NO. 7 W/8"x6" TEE & 6" GATE VALVE
B	1" MVR METER AND 1" TYPE K COPPER LATERAL PER UDACS STD. PLATE NO. 18
C	1" IRRIGATION METER PER UDACS PLATE #1D 1" RPPA PER UDACS PLATE #11A
D	6" CAP AND BLOWOFF ASSEMBLY PER UDACS STD. PLATE NO. 4A
E	8" CAP AND BLOWOFF ASSEMBLY PER UDACS STD. PLATE NO. 4A
F	12" X 8" MECHANICAL TAPPING TEE
G	6" GATE VALVE PER UDACS STD. PLATE NO. 8
H	8" GATE VALVE PER UDACS STD. PLATE NO. 8
I	6" TEE
J	8" TEE
K	8"x6" REDUCER
L	8"x6" CROSS
M	6" 45° BEND
N	6" 22 1/2° BEND
O	8" 90° BEND
P	8"x6" TEE
Q	8"x8" CROSS
R	10" X 8" MECHANICAL TAPPING TEE
S	6" 90° BEND

NOTE:
ALL 24' STUB STREETS ARE PRIVATE DRIVES AND PUBLIC UTILITY EASEMENTS

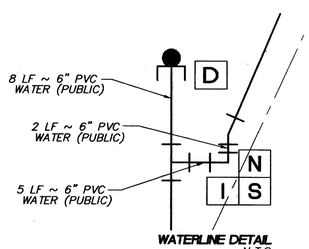
NOTE:
INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER UDACS PLATE NO. 27.

REDUCED PRESSURE PRINCIPLE ASSEMBLY: (1) 1"

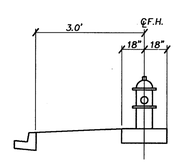
APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 11A. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVVWD.

ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY.

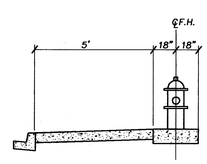
EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.



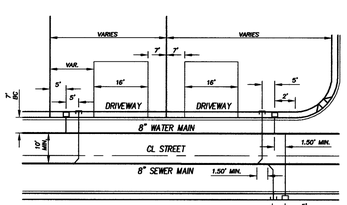
WATERLINE DETAIL
N.T.S.



TYPICAL FIRE HYDRANT LOCATION W/O SIDEWALK
NOT TO SCALE



TYPICAL FIRE HYDRANT LOCATION W/SIDEWALK
NOT TO SCALE



LATERAL NOTES:

WATER & SEWER SERVICE LATERALS SHALL BE INSTALLED IN SEPERATE TRENCHES A MINIMUM OF 48" APART. WATER LATERALS SHALL BE A MINIMUM OF 12" ABOVE THE SEWER LATERAL. (REF: UNIFORM PLUMBING CODE). WATER LATERAL SHALL BE PLACED 18" ABOVE SEWER MAINS AND LATERALS AT CROSSINGS.

TYPICAL LATERAL LOCATION

SEWER NOTES

A	CONSTRUCT STANDARD ECCENTRIC MANHOLE PER DCSWCS PLATE SD-1
B	CONSTRUCT SPECIAL MANHOLE "B" PER DCSWCS PLATE SD-10
C	INSTALL SEWER LATERAL PER DCSWCS PLATE SD-17
BWV	BACK WATER VALVE

CLV FIRE DEPT. — DATE 12.8.04

APPROVALS

LAS VEGAS VALLEY WATER DISTRICT — DATE 2/02/05
PROJECT # H-109368

Avoid cutting underground utility lines. It's costly. Call before you Dig 1-800-227-2600 UNDERGROUND SERVICE (NVA)

Avoid overhead power line contact. Call before you Overhead 1-702-593-6111 NEVADA POWER ENVIRONMENT SAFETY SERVICES DEPARTMENT

FOUR HOURS UNDERGROUND TRAFFIC SIGNAL SYSTEMS AND STREET LIGHT SYSTEMS CONDUITS IT'S COSTLY CALL BEFORE YOU DIG NO UNDERGROUND Call before you Underground 1-702-455-7511 1-702-229-6611

BASIS OF BEARING

SOUTH 00°13'40" EAST BEING THE WEST LINE OF THE NORTHWEST QUARTER (NW 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 20, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA AS SHOWN FILE 25, PAGE 44 OF PARCEL MAPS IN THE CLARK COUNTY RECORDER'S OFFICE, CLARK COUNTY, NEVADA.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK – 2C90-20W4

REBAR ±124 FT. NORTHEAST OF DEER SPRINGS AND FORT APACHE

ELEVATION = 808.867 METERS (NAVD88)
ELEVATION = 2647.20 FEET (NAVD88)

T-1402

REV.	DATE	BY	REVISION

P:\001\04005\001040005-UTILITY.dwg 12/8/2004 8:42:23 AM PST

DRAWN BY:
DESIGNED BY:
CHECKED BY:
SCALE: 1"=30'
PROJECT NO. 001.04005

THOMASON CONSULTING ENGINEERS
3161 E. WARM SPRINGS ROAD, SUITE 200
LAS VEGAS, NEVADA 89120
702-932-6125 FAX: 702-932-6129

RICHMOND AMERICAN HOMES
WHITNEY HEIGHTS

UTILITY PLAN
CITY OF LAS VEGAS

PROFESSIONAL ENGINEER - STATE OF NEVADA
JOSEPH D. THOMASON
Exp. 6-30-06
CIVIL
No. 11907
PROFESSIONAL ENGINEER
12-8-04

SHEET U2 9 OF 33
DRAWING NO. 107Y4858